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Dkt 7158 01

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Henderson et al.

Serial No.: 09/519,271

Group Art Unit: 1631

Filed: March 7, 2000

Examiner: J. Fredman

Title: A Method For Solid State Genome Analysis

## AMENDMENT AND RESPONSE

Assistant Commissioner for Patents  
Washington, D.C. 20231I hereby certify that this document is being sent via  
First Class U. S. mail addressed to: Assistant  
Commissioner for Patents, Washington, D.C. 20231 on  
this 9 day of August, 2001

Dear Sir:

Frances Essien  
Frances Essien

The following amendments and remarks are submitted in response to the Office Action  
mailed on May 9, 2001.

## IN THE CLAIMS

Please amend the claims as follows:

1. (Amended) A method for analyzing a nucleic acid sample, the method comprising
  - (a) tagging two or more sequence specific sites of the nucleic acid;
  - (b) scanning the nucleic acid sample; and
  - (c) analyzing the scan of the nucleic acid sample to determine the relative positions of  
the tagged sequence specific sites of the nucleic acid.
5. (Amended) The method of claim 2 wherein said scanning step further comprises utilizing  
a near field optical microscope.